Hazard ID		Situational Analysis						Hazard Identification						Hazardous Event Classification						Determination of ASIL and Safety Goals	
	Operational Mode	Operational Scenario	Environmental Details	Situation Details	Other Details (optional)	Item Usage (function)	Situation Description	Function	Deviation	Deviation Details	Hazardous Event (resulting effect)	Event Details	Hazardous Event Description	Exposure (of situation)	Rationale (for exposure)	Severity (of potential harm)	Rationale (for severity)	Controllability (of hazardous event)	Rationale (for controllability)	ASIL Determination	Safety Goal
HA-001	OM03 - Normal driving	OS04 - Highway	EN06 - Rain (slippery road)	SD02 - High speed	N/A	IU01 - Correctly used	Normal driving on a highway during rain (slippery road) with high speed and correctly used system.	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback.	DV04 - Actor effect is too much	The lane departure warning function applies an oscillating torque with very high torque (above limit).	EV00 - Collision with other vehicle	High haptic feedback can affect driver's ability to steer as intended. The driver could lose control of the vehicle and collide with another vehicle or with road infrastructure.	Loss of of control (steering) with possible collision.	E3 - Medium probability	The driver is driving on a highway with wet road. This will happen quite often, so we will label the exposure with E3.	S3 - Life-threatening or fatal injuries	The driver is traveling a high speed -> severity will be high.	C3 - Difficult to control or uncontrollable	The mailunction was that the lane departure warning function causes the steering wheel to vibrate excessively with wild swings of the steering wheel, most drivers would have difficulty controlling the vehicle.	ASIL C	The oscillating stearing torque from the lan departure warning function shall be limited
HA-002	OM03 - Normal driving	OS03 - Country Roads	EN01 - Normal Conditions	SD02 - High speed	N/A	IU02 - Uncorrectly used	Normal driving on country roads during normal conditions with high speed and uncorrectly used system.	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane.	DV03 - Function always activate	The lane keeping assistance is not time limited, so the driver can misuse it as an autonomous driving function.		The driver is misusing the function by taking both hends off the wheel and incorrectly treating the car as a fully autonomous valicle. The wehicle could collide with a other wehicle or with road infrastructure.	Loss of of control (steering) because of misusing the system with possible collision.	E2 - Low probability	The driver is on a country road and misusing the system. That combination probably does not happen often, so we will label the exposure E2	S3 - Life-threatening or fatal injuries	The driver is traveling a high speed -> severity will be high.	C3 - Difficult to control or uncontrollable	The malfunction was that the lane keeping assistance was always on and had no time limit, so drivers could take both hands off the wheel. Because hands aren't on the wheel at high speeds, a vehicle accident would not be controllable.		The lane keeping assistance function shall be time limited and the additional steering torque shall end after a given time interval so that the driver cannot misuse the system for autonomous driving.
HA-003	OM03 - Normal driving	OS02- City Roads	EN01 - Normal Conditions	SD01 - Low speed	N/A	IU01 - Correctly used	Normal driving on city roads during normal conditions with low speed and correctly used system.	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback.	DV02 - Function unexpectedly activated	The lane departure warning function is activated independently. The steering wheel begins to oscillate during normal city driving even if the driver expects the system to be deactivated.	EV00 - Collision with other vehicle	Unexpected haptic feedback can affect driver's ability to steer as intended. The driver could lose control of the vehicle and collide with another vehicle or with road infrastructure.	Loss of of control (steering) with possible collision.	E4 - High probability	The driver is driving on city roads under normal conditions at low speed and uses the system correctly. This situation will occur during almost every drive.	S1 - Light and moderate injuries	The driver is traveling a low speed at the city > severity will be low.		The malfunction was that the lane departure worning function causes the steering wheel to vibrate unexpectally, while the systems should be off. The steering wheel will be oscillating with the normal torqua. Most drivers would be able to control this situation.	ASIL A	The lane departure warning function shall not be activated independently if this is not intended by the driver.
HA-004	OM03 - Normal driving	OS05 - Mountain Pass	EN07 - Snow (slippery road)	SD01 - Low speed	N/A		Normal driving on a mountain pass during snow (slippery road) with low speed and correctly used system.	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stey in ego lane.	DV19 - Sensor detection is wron	The lane keeping assistance system is activated but the system can't detect the lane boundaries correctly because of snow. The systems interpret the lane boundaries wrong and tries to steer off the read.	EV04 - Car comes off the road	The driver trusts the system to get support to keep at the center of the lane. Instead of this the system doer not distact the lane boundaries correct and adds extra steering torque to the wrong direction and forces the car to leave the road.		E2 - Low probability	The driver is on a mountain pass with lots of snow. That combination probably does not happen often, so we will label the exposure E2	S2 - Severe and life- threatening injuries	The driver drives at low speed on a mountain pass. If the car leaves the road, it could crash in the rocky, steep tersain> Severity will be medium.	C3 - Difficult to control or uncontrollable	The maillunction was that the lane keeping assistance system didn't delect the lane and read boundries connectly and forces the car to laise the read because of an add exits torque in the wrong direction. Most drivers would have difficulty controlling the vehicle.		The tane keeping assistance function shall deachivate itself and shall warm the driver if it is unable to reliably detect tane and road boundaries.